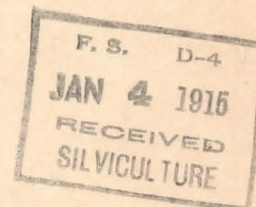


JAN 4 1915

Refd to Silviculture

SI
Me-1, Payette
Volume, Growth & Yield
of Western Yellow Pine



PROGRESS REPORT - 1914

Object of the Project

To secure sufficient data for the formation of Volume, Growth and Yield tables in yellow pine, particularly applicable in the commercial yellow pine of Southern Idaho.

Methods

Detailed information on the methods of work is contained in the report accompanying the data. In general, the methods are those commonly used in stem and stump analysis.

Work Previous to 1914

In July, 1911, some 28 yellow pine were analyzed on the Dry Buck sale area, Lower North Fork Compartment.

Progress in 1914

In January, 1914, work began in earnest on this project, on the cutting area of the Michigan-Idaho Lumber Company sale, mostly on Nelson and Station Creeks on the Payette South Fork. As cutting was proceeding slowly, but was far in advance of the skidding and hauling operations,

only volume measurements were secured at first, but the stumps were numbered with a timber scribe to permit of stump analysis later, when the volume measurement of all stems in danger of early movement had been secured. By the time volume measurement of all stems in danger of early movement had been secured, however, so many additional administrative duties had been assigned that but little stump analysis was possible.

Volume measurements were secured of 489 yellow pine. Of these, age counts were made of 35 stumps, and complete stump analysis of 124 stumps.

Further Work Proposed

It is recommended that technical assistants in charge of small sales where time permits it, be instructed to gather such additional growth, yield and volume measurements as they can. On a large sale where cutting proceeds fast enough to warrant it, an officer might profitably be assigned to this work, particularly if the cutting is in a type where Douglas fir, Grand fir or Western larch associate with yellow pine. Our work to date on the Payette is practically confined to pure stands of yellow pine, and we are in need of information on yellow pine grown in competition with other species.

Experienced scalers might also be instructed, where time permits, to record against defective logs the deductions made for defects. The nature of the defect can readily be noted by symbols. This data, together with the information already secured along this line, will permit the determination of the cull per cent to allow in our estimates in the types in which this scaling is done. The additional work imposed upon a scaler reduces his daily scale less than 10%.

Cost of This Work

To date the total cost of this project on Station, Nelson, Poorman and Carpenter Creeks has been \$163.40 in salaries and \$46.00 in expenses of the men on the project, or a total of \$209.40, approximating as closely as possible the time chargeable to this work and that chargeable to sale supervision.

The cost per tree has averaged approximately \$.43. Had trees of all sizes been taken, less ground would have had to be covered and the cost would have been considerably less.

NOTE -- The total cost, \$209.40, is the cost of volume measurements on 489 trees, on which also 35 age counts and 124 complete stump analysis were made, the cost of which is included.

Respectfully submitted,

L. O. Miles

Forest Examiner

Approved Dec 31, 1914

Harry B. Mann

Forest Supervisor.